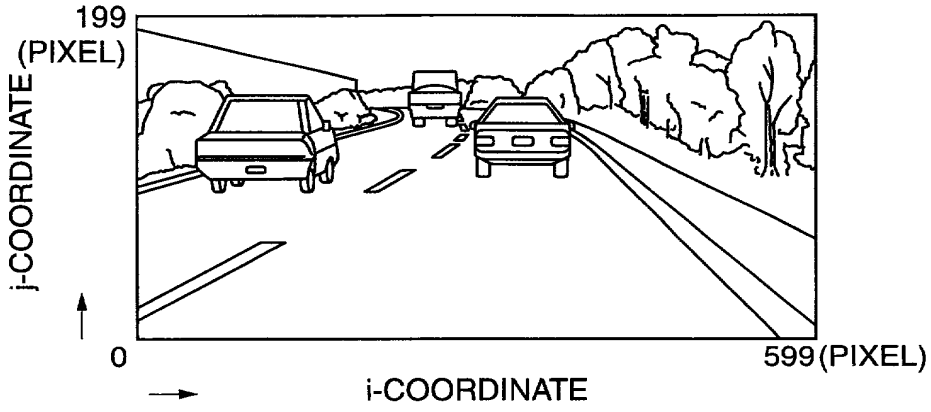

FIG.1

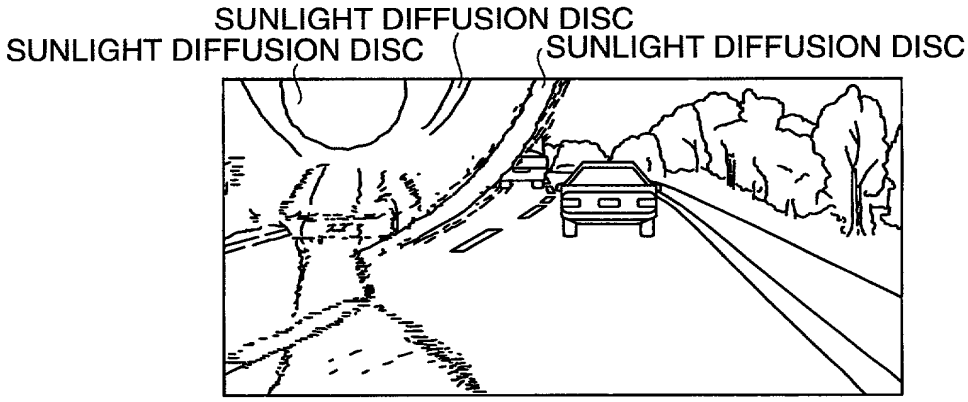

FIG.2

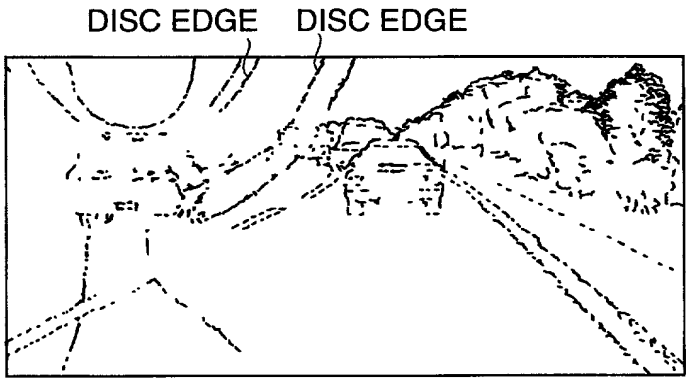

FIG.3

JP2004-096264A

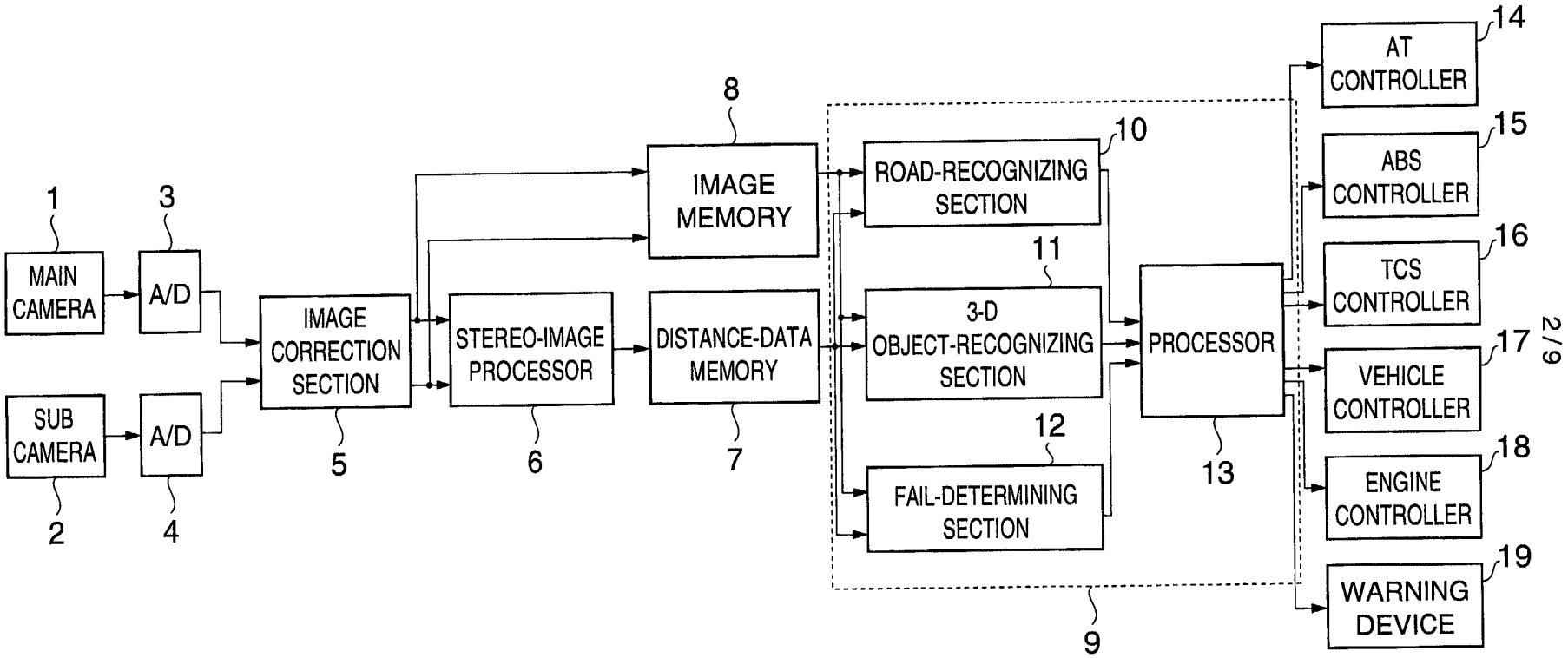
1
MAIN CAMERA
2
SUB CAMERA
3
A/D
4
A/D
5
IMAGE CORRECTION SECTION
6
STEREO-IMAGE PROCESSOR
7
DISTANCE-DATA MEMORY
8
IMAGE MEMORY
9
10
ROAD-RECOGNIZING SECTION
11
3-D OBJECT-RECOGNIZING SECTION
12
FAIL-DETERMINING SECTION
13
PROCESSOR
14
AT CONTROLLER
15
ABS CONTROLLER
16
TCS CONTROLLER
17
VEHICLE CONTROLLER
18
ENGINE CONTROLLER
19
WARNING DEVICE

FIG.4

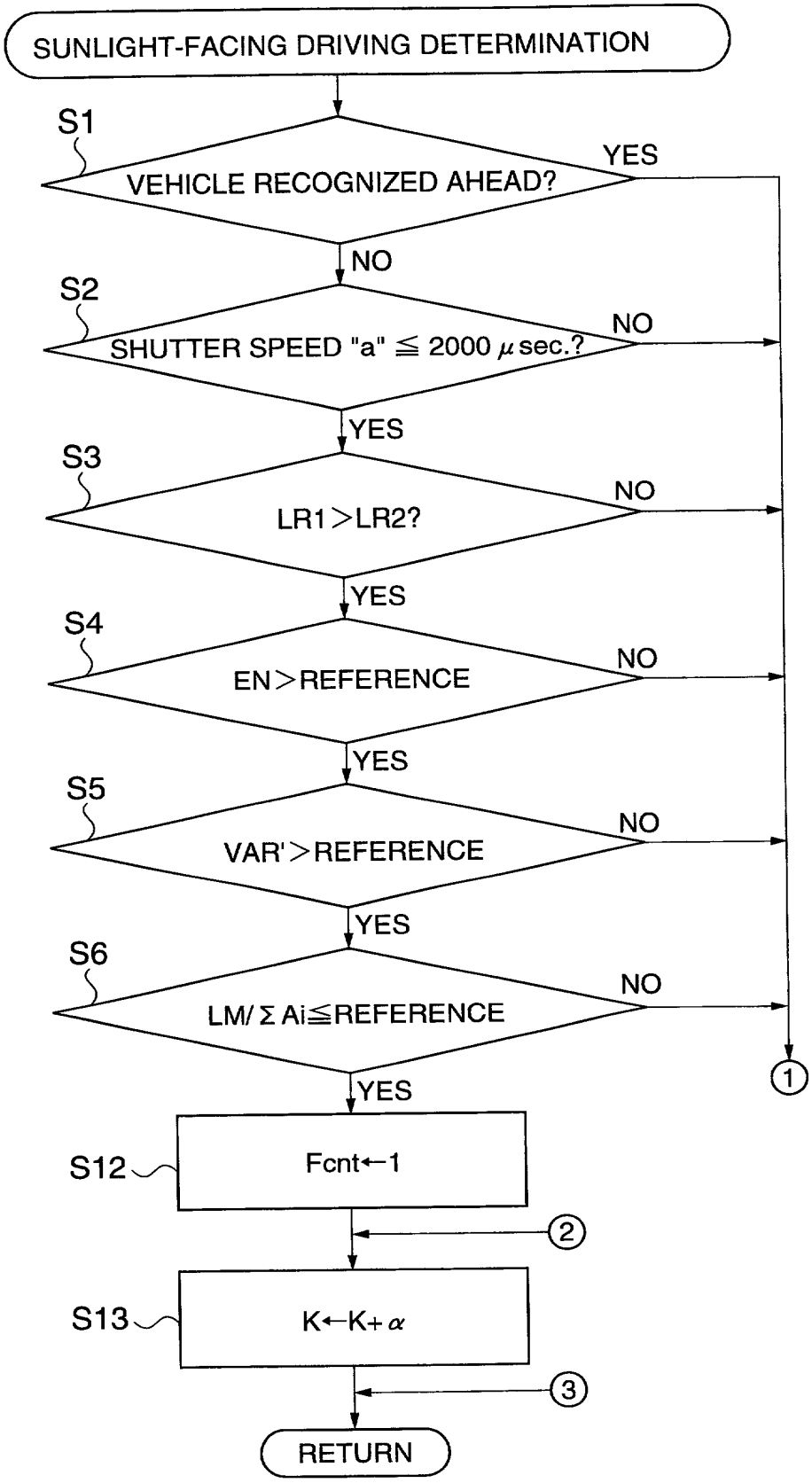

FIG.5

EP 0 884 896 A2

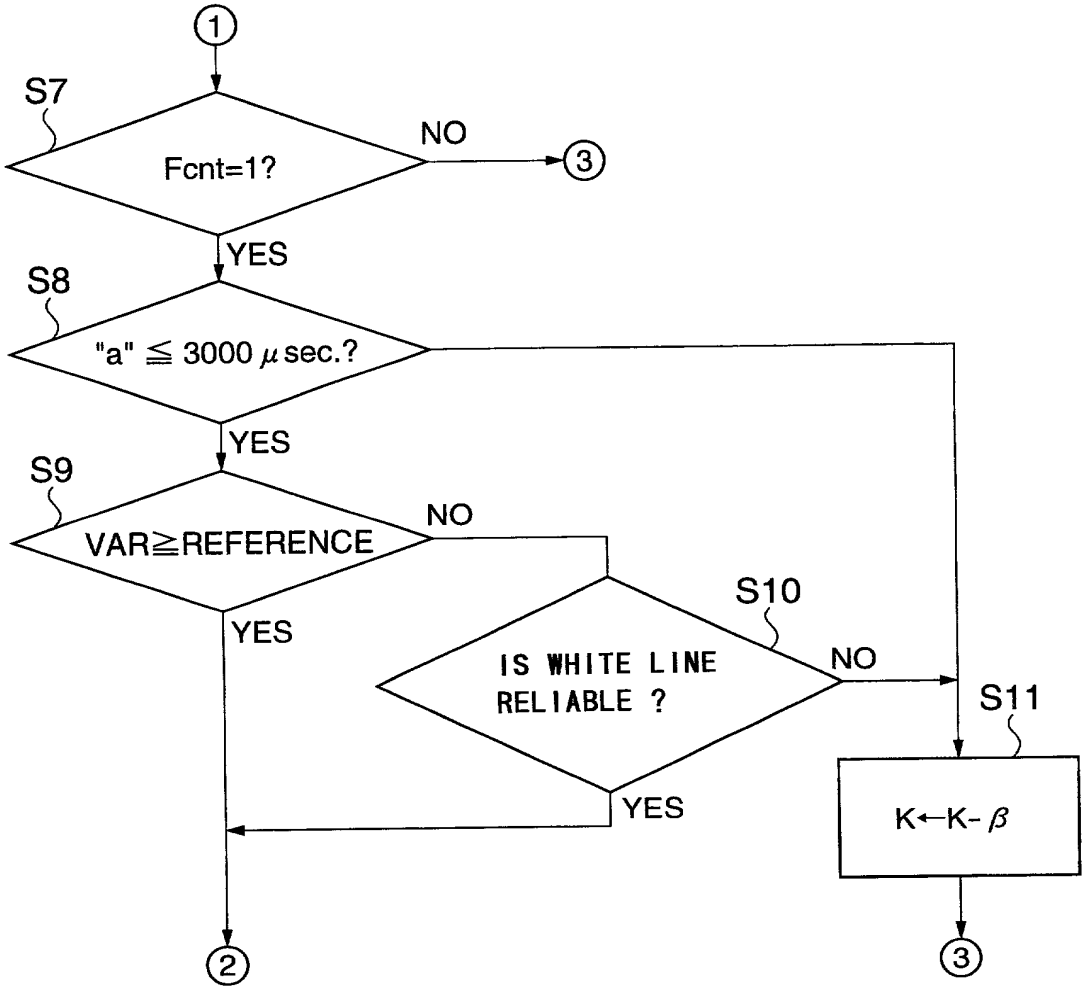
1
S7
Fcnt=1?
NO
3
YES
S8
"a" ≦ 3000 μsec.?
YES
S9
VAR≧REFERENCE
NO
YES
S10
IS WHITE LINE RELIABLE ?
NO
YES
S11
K←K-β
2
3

FIG.6

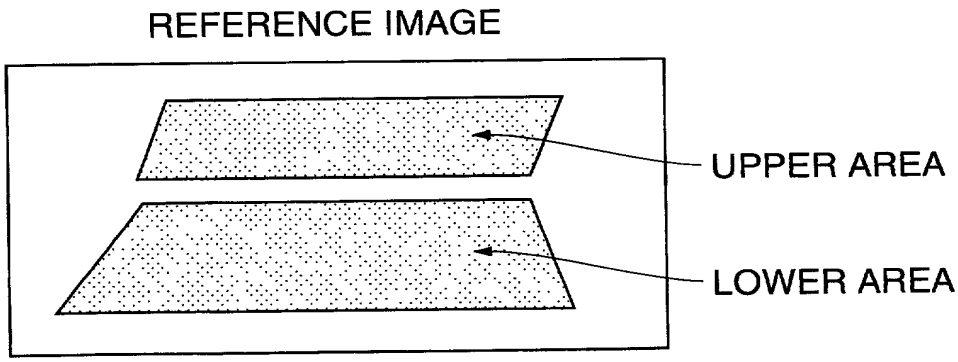
REFERENCE IMAGE
UPPER AREA
LOWER AREA

FIG.7

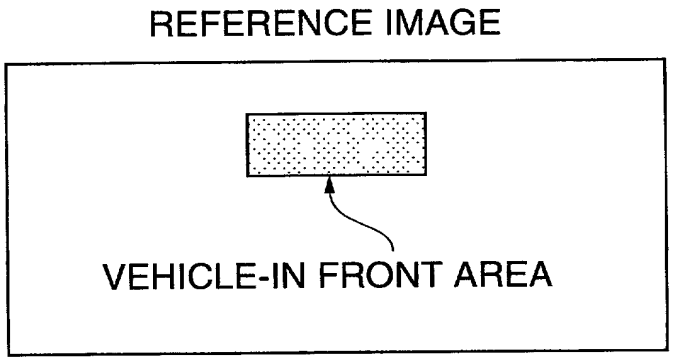
REFERENCE IMAGE
VEHICLE-IN FRONT AREA

FIG.8

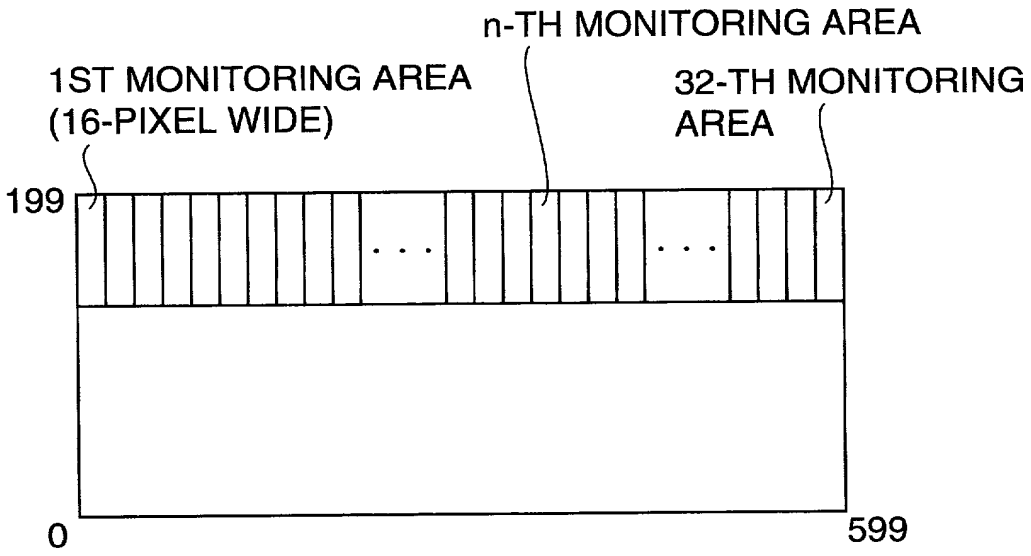
n-TH MONITORING AREA
1ST MONITORING AREA
(16-PIXEL WIDE)
32-TH MONITORING
AREA
199
0
599

FIG.9

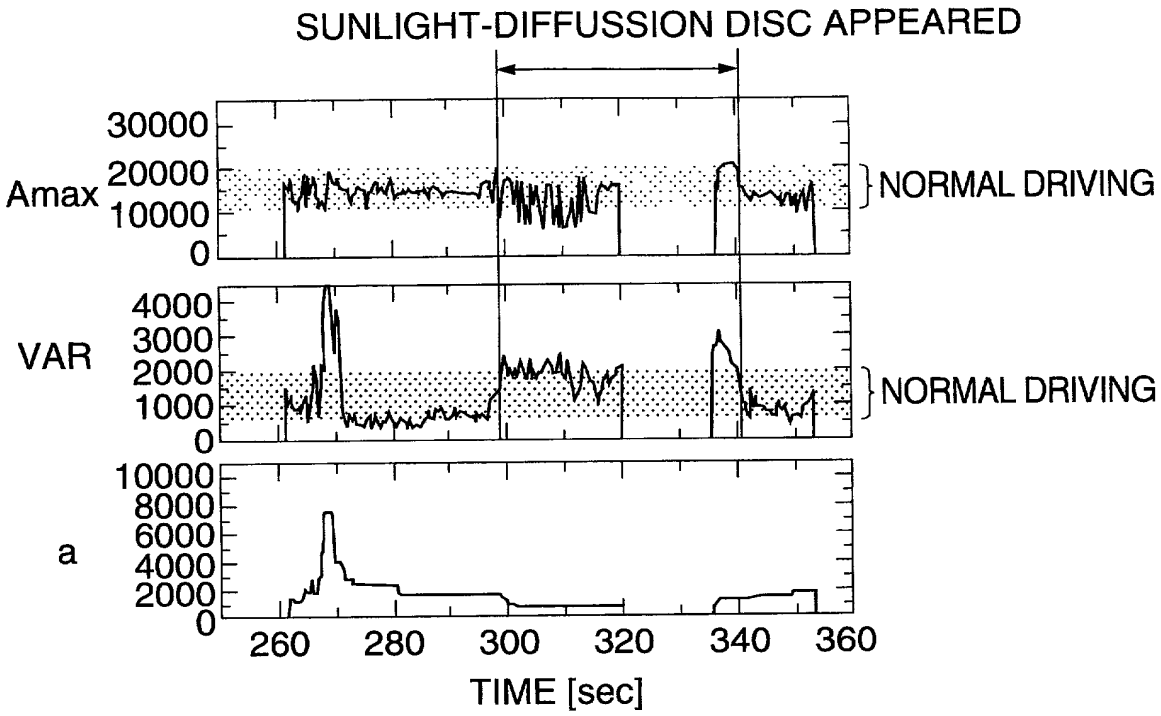
SUNLIGHT-DIFFUSSION DISC APPEARED
Amax
30000
20000
10000
0
NORMAL DRIVING
VAR
4000
3000
2000
1000
0
NORMAL DRIVING
a
10000
8000
6000
4000
2000
0
260
280
300
320
340
360
TIME [sec]

FIG.10

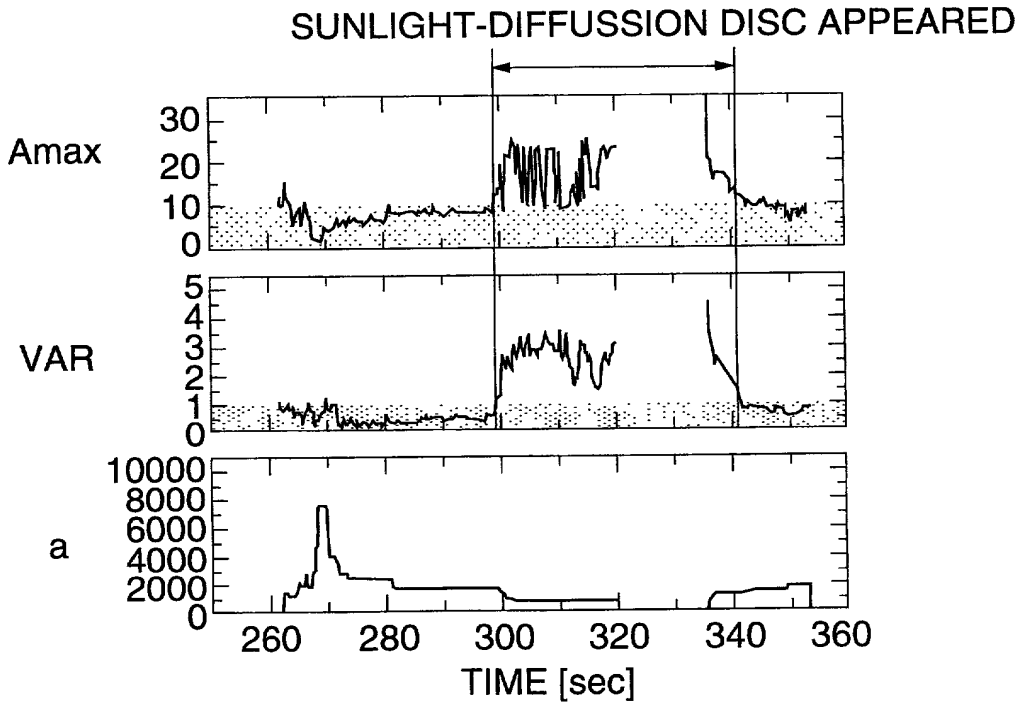
SUNLIGHT-DIFFUSSION DISC APPEARED
Amax
30
20
10
0
VAR
5
4
3
2
1
0
a
10000
8000
6000
4000
2000
0
260
280
300
320
340
360
TIME [sec]

FIG.11

FIG.12A

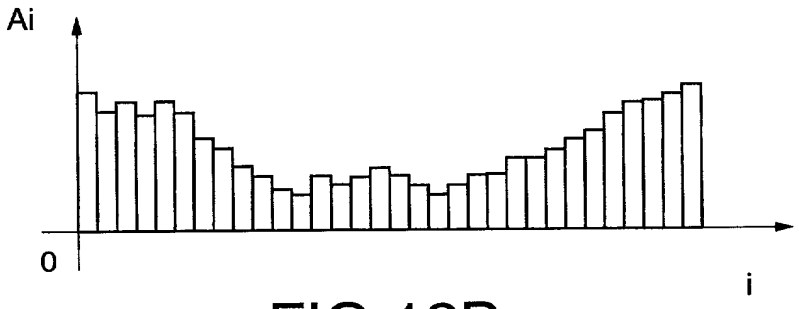

FIG.12B

FIG.13A

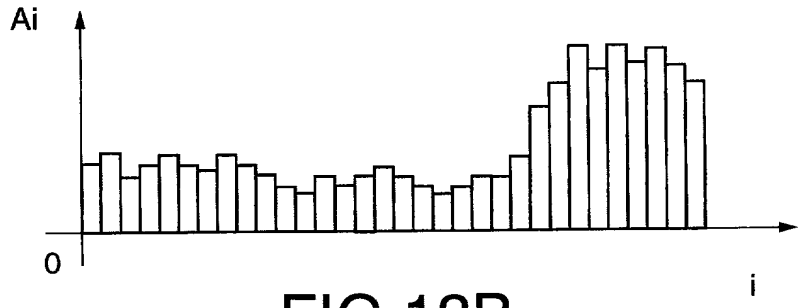

FIG.13B

FR 2 768 858 - 05 FR 97 11 950

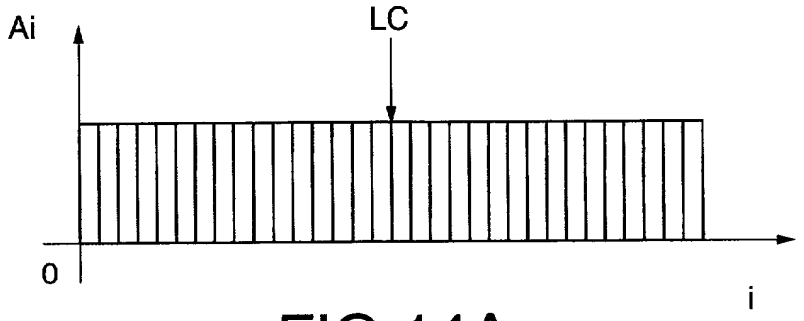

FIG.14A

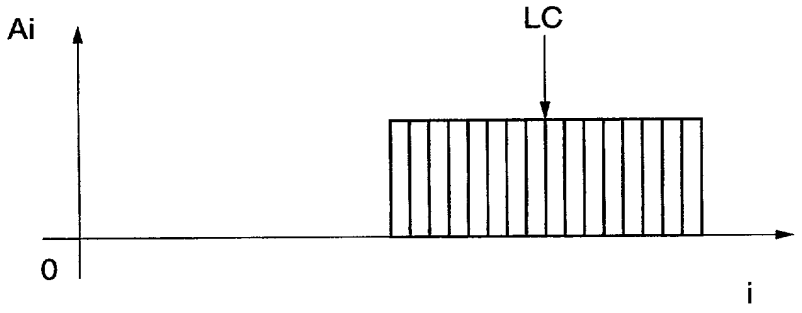

FIG.14B

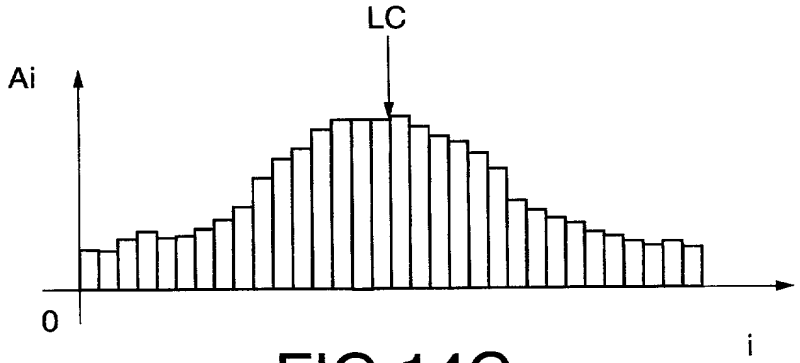

FIG.14C

Copy provided by USPTO from the PIRS Image Database on 06/25/2004

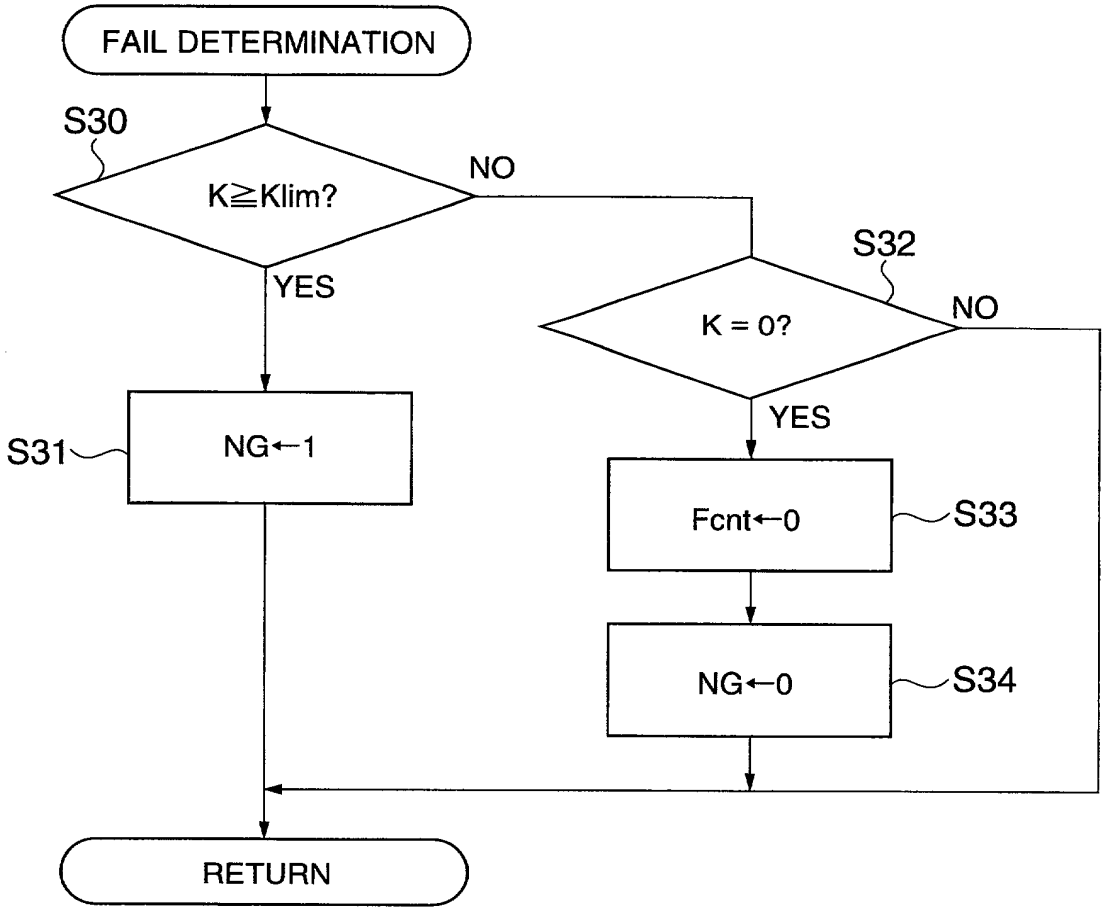

FIG.15

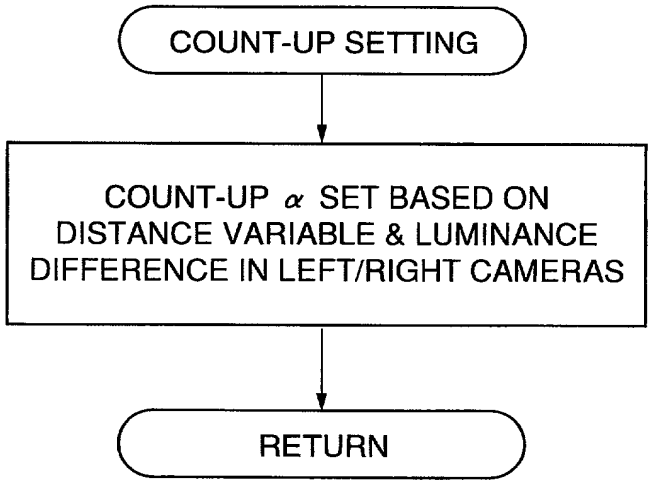

FIG.16

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